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CLAIM AMENDMENTS

The following listing of claims will replace all prior versions of claims in the application:

1. (Currently Amended) A control system for controlling automated applications in a building environment comprising:

a communications network;

a plurality of application controllers connected to said communications network, each of said application controllers including means for controlling operation of a corresponding automated device, each of said plurality of application controllers having a controller type;

a control interface connected to said communications network, wherein said communications network is located between said plurality of application controllers and said control interface, said control interface including a database having a plurality of profiles, each of said plurality of profiles associated with said controller type of one of said plurality of application controllers, wherein each of said plurality of profiles contains a plurality of preprogrammed ~~pre-defined~~ application controller type specific commands; and

self-configuration means for providing automated configuration of each of said plurality of application controllers on said communications network, said self-configuration means including means for conveying said controller type from each of said plurality of application controllers to said control interface over said communications network, said self-configuration means further including means for identifying one of said plurality of profiles for each of said conveyed controller types in said database, said self-configuration means further

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including means for configuring each of said plurality of application controllers using at least one of said plurality of preprogrammed ~~pre-defined~~ application controller type specific commands of said identified profiles.

2. (Currently Amended) The control system of claim 1 wherein each of said preprogrammed application controller type specific commands comprises a variable and each of said application controllers controls operation of said corresponding automated device in accordance with at least one variable; and

wherein said control interface includes means for controlling operation of said application controller by specifying a value of said variable.

3. (Cancelled)

4. (Currently Amended) The control system of claim 1 ~~claim 3~~ wherein said control interface includes means for transmitting explicit messages to said application controllers, each of said explicit messages including an identification unique to a specific one of said application controllers and one of said plurality of preprogrammed application controller type specific commands; and

said application controllers each including receiving means for receiving said explicit messages from said control interface, said receiving means including means for recognizing only those of said explicit messages which include an identification unique to said application controller in which said means for receiving resides.

5.-6. (Cancelled)

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7. (Currently Amended) The control system of claim 1 ~~claim 6~~ wherein each of said application controllers include an occupancy status;

said control interface including means for grouping a plurality of application controllers into an occupancy group; and

means for defining said occupancy status of each of said application controllers in a given occupancy group as a group.

8. (Original) The control system of claim 7 further comprising a network server interface, said network server interface including means for monitoring and controlling operation of said control system over an Internet connection.

9.-10. (Cancelled)

11. (Original) The control system of claim 4 wherein said plurality of application controllers includes at least one HVAC application controller, at least one lighting application controller and at least one access control application.

12. (Previously Presented) The control system of claim 4 wherein said control interface further includes:

a database of application controller control software images; and

means for downloading said control software images into at least one of said application controllers.

13. (Previously Presented) The control system of claim 12 further comprising means for downloading said application controller control software images into said control interface from an external source, whereby said application controller control software images can be upgraded.

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14. (Cancelled)

15. (Previously Presented) The control system of claim 4 wherein said control interface further includes means for downloading a control interface control software image into said control interface.

16. (Previously Presented) The control system of claim 15 further comprising means for downloading said control interface control software image into said control interface from an external source, whereby said control interface control software images can be upgraded.

17. (Previously Presented) The control system of claim 16 wherein at least one of said control interface is preprogrammed with basic networking and configuration software enabling said control interface to receive and install said control interface control software image downloaded by said control interface.

18. (Previously Presented) The control system of claim 4 wherein at least one of said control interface and said application controllers is preprogrammed with a generic programming language and includes means for downloading a control program to be run by said programming language to define operation of at least one of said control interface and said application controllers.

19. (Currently Amended) A control system for automated applications in a building environment comprising:

a communications network;

a plurality of application controllers connected to said communications network,
each of said application controllers providing automated operation of a corresponding

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application, each of said application controllers being capable of providing automated operation of said corresponding application in accordance with a plurality of control variables; and

a control interface connected to said communications network, wherein said communications network is located between said plurality of application controllers and said control interface, said control interface including means for transmitting explicit messages by way of an explicit address to each of said application controllers, said explicit messages including preprogrammed ~~pre-defined~~ application controller specific commands for adjusting said plurality of control variables of said plurality of application controllers;

wherein each of said application controllers includes means for processing said preprogrammed ~~pre-defined~~ application controller specific commands received from said control interface in said explicit messages and means for adjusting a value of said plurality of control variables in accordance with said preprogrammed ~~pre-defined~~ application controller specific commands, whereby said control interface is capable of controlling operation of said application controllers.

20. (Previously Presented) The system of claim 19 wherein said application controllers include application controllers of a plurality of different controller types;

said control interface including a preprogrammed database containing at least one profile, said profile defining said plurality of control variables for said one of said controller types.

21. (Previously Presented) The system of claim 20 wherein said preprogrammed database containing a plurality of profiles, each of said profiles being uniquely associated with one of said

controller types and defining the plurality of control variables for said one of said controller types.

22. (Original) The system of claim 20 wherein said controller types include at least an HVAC controller type, a lighting controller type and an access controller type.

23. (Original) The system of claim 22 further comprising a network server interface, said network server interface including means for monitoring and controlling operation of said control system over an Internet connection.

24. (Previously Presented) The system of claim 23 wherein said control interface includes a means for periodically transmitting by way of explicit addressing a ping to each of said application controllers and a means for receiving a response to said ping from each of said application controllers.

25. (Previously Presented) The system of claim 24 wherein each of said application controllers includes a means for receiving said ping from said control interface and a means for transmitting a response to said ping directly to said control interface.

26. (Previously Presented) The system of claim 25 wherein said ping for at least one of said application controllers includes data for updating said application controller with current system information, said application controller including means for updating certain of the plurality of control variables in accordance with said current system information.

27. (Previously Presented) The system of claim 26 wherein said response transmitted by at least one of said application controllers includes data relevant to at least one other of said

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application controllers, said control interface including means for transmitting by way of explicit addressing said data included in said response to said other of said application controllers.

28. (Cancelled)

29. (Previously Presented) The system of claim 28 further comprising self-configuration means for providing automated configuration of each of said application controllers on said communications network, said self-configuration means including means for conveying said controller type of said application controller from said application controller to said control interface, said self-configuration means further including means for configuring said application controller based on said profile corresponding to said controller type of said application controller.

30. (Original) The system of claim 29 wherein each of said application controllers includes an occupancy status;

said interface controller including a means for grouping said application controllers into occupancy groups; and

said interface controller further including means for defining as a group said occupancy status of each of said application controller is a given group.

31. (Previously Presented) The system of claim 30 wherein said control interface includes:

means for calculating a person count for at least one of said groups based on access entry and access exit information received by said control interface from an access control unit;

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means for defining said occupancy status of said application controllers within said group based on said person count.

32.-66. (Cancelled)

67. (New) The control system of claim 19 wherein each of said preprogrammed application controller type specific commands comprise at least one of said plurality of control variables.

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